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BIOTECHNOLOGY
SYSTEMS
BRANCH



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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

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OIEP

RAW SEQUENCE LISTING

DATE: 06/05/2002

PATENT APPLICATION: US/09/851,494A

TIME: 10:00:21

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\06052002\I851494A.raw

pg 1-2

**Does Not Comply
Corrected Diskette Needed**

3 <110> APPLICANT: ML4 Foundation
 4 Goldin, Ehud
 5 Slaughterhaupt, Susan A.
 6 Sun, Mei
 7 Acierno, James S.
 9 <120> TITLE OF INVENTION: A Gene Encoding A New TRP Channel is Mutated in
 Mucopolipidosis IV
 11 <130> FILE REFERENCE: 3394/1H557US1
 13 <140> CURRENT APPLICATION NUMBER: 09/851,494A
 14 <141> CURRENT FILING DATE: 2001-05-08
 16 <160> NUMBER OF SEQ ID NOS: 11
 18 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

703 <210> SEQ ID NO: 4
 704 <211> LENGTH: (553) 552 shown (p. 2)
 705 <212> TYPE: PRT
 706 <213> ORGANISM: Homo sapiens
 708 <400> SEQUENCE: 4
 710 Met Ala Asp Pro Glu Val Val Val Cys Ser Cys Ser Ser His Glu Glu
 711 1 5 10 15
 714 Glu Asn Arg Cys Asn Phe Asn Gln Gln Thr Ser Pro Ser Glu Glu Leu
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 718 Leu Leu Glu Asp Gln Met Arg Arg Lys Leu Lys Phe Phe Phe Met Asn
 719 35 40 45
 722 Pro Cys Glu Lys Phe Trp Ala Arg Gly Arg Lys Pro Trp Lys Leu Ala
 723 50 55 60
 726 Ile Gln Ile Leu Lys Ile Ala Met Val Thr Ile Gln Leu Val Leu Phe
 727 65 70 75 80
 730 Gly Leu Ser Asn Gln Met Val Val Ala Phe Lys Glu Glu Asn Thr Ile
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 734 Ala Phe Lys His Leu Phe Leu Lys Gly Tyr Met Asp Arg Met Asp Asp
 735 100 105 110
 738 Thr Tyr Ala Val Tyr Thr Gln Ser Asp Val Tyr Asp Gln Leu Ile Phe
 739 115 120 125
 742 Ala Val Asn Gln Tyr Leu Gln Leu Tyr Asn Val Ser Val Gly Asn His
 743 130 135 140
 746 Ala Tyr Glu Asn Lys Gly Thr Lys Gln Ser Ala Met Ala Ile Cys Gln
 747 145 150 155 160
 750 His Phe Tyr Lys Arg Gly Asn Ile Tyr Pro Gly Asn Asp Thr Phe Asp
 751 165 170 175
 754 Ile Asp Pro Glu Ile Glu Thr Glu Cys Phe Phe Val Glu Pro Asp Glu

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Input Set : A:\Sequence Listing (ASCII copy).txt

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759          195          200          205
762 Asp Phe His Arg Leu Leu Thr Val Glu Leu Gln Phe Lys Leu Lys Ala
763          210          215          220
766 Ile Asn Leu Gln Thr Val Arg His Gln Glu Leu Pro Asp Cys Tyr Asp
767 225          230          235          240
770 Phe Thr Leu Thr Ile Thr Phe Asp Asn Lys Ala His Ser Gly Arg Ile
771          245          250          255
774 Lys Ile Ser Leu Asp Asn Asp Ile Ser Ile Arg Glu Cys Lys Asp Trp
775          260          265          270
778 His Val Ser Gly Ser Ile Gln Lys Asn Thr His Tyr Met Met Ile Phe
779          275          280          285
782 Asp Ala Phe Val Ile Leu Thr Cys Leu Val Ser Leu Ile Leu Cys Ile
783          290          295          300
786 Arg Ser Val Ile Arg Gly Leu Gln Leu Gln Gln Glu Phe Val Asn Phe
787 305          310          315          320
790 Phe Leu Leu His Tyr Lys Lys Glu Val Ser Val Ser Asp Gln Met Glu
791          325          330          335
794 Phe Val Asn Gly Trp Tyr Ile Met Ile Ile Ile Ser Asp Ile Leu Thr
795          340          345          350
798 Ile Ile Gly Ser Ile Leu Lys Met Glu Ile Gln Ala Lys Ser Leu Thr
799          355          360          365
802 Ser Tyr Asp Val Cys Ser Ile Leu Leu Gly Thr Ser Thr Met Leu Val
803          370          375          380
806 Trp Leu Gly Val Ile Arg Tyr Leu Gly Phe Phe Ala Lys Tyr Asn Leu
807 385          390          395          400
810 Leu Ile Leu Thr Leu Gln Ala Ala Leu Pro Asn Val Ile Arg Phe Cys
811          405          410          415
813 Cys Ala Ala Met Ile Tyr Leu Gly Tyr Cys Phe Cys Gly Trp Ile
814          420          425          430
817 Val Leu Gly Pro Tyr His Asp Lys Phe Arg Ser Leu Asn Met Val Ser
E--> 818          435          440          445
821 Glu Cys Leu Phe Ser Leu Ile Asn Gly Asp Asp Met Phe Ala Thr Phe
E--> 822          450          455          460
825 Ala Lys Met Gln Gln Lys Ser Tyr Leu Val Trp Leu Phe Ser Arg Ile
E--> 826 465          470          475          480
829 Tyr Leu Tyr Ser Phe Ile Ser Leu Phe Ile Tyr Met Ile Leu Ser Leu
E--> 830          485          490          495
833 Phe Ile Ala Leu Ile Thr Asp Thr Tyr Glu Thr Ile Lys Gln Tyr Gln
E--> 834          500          505          510
837 Gln Asp Gly Phe Pro Glu Thr Glu Leu Arg Thr Phe Ile Ser Glu Cys
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841 Lys Asp Leu Pro Asn Ser Gly Lys Tyr Arg Leu Glu Asp Asp Pro Pro
E--> 842          530          535          540
845 Val Ser Leu Phe Cys Cys Cys Lys Lys
E--> 846 545          550

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← amino acid missing
at location 432

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/851,494A

DATE: 06/05/2002

TIME: 10:00:22

Input Set : A:\Sequence Listing (ASCII copy).txt

Output Set: N:\CRF3\06052002\I851494A.raw

L:818 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4

M:332 Repeated in SeqNo=4

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